

Table S2: Impact of the immune deficiency pathway on the expression of genes altered by microbiota.

CG NUMBER	GENE SYMBOL	GENE FUNCTION	Oregon R CR/AX	RelE20 CR/AX
GENE EXPRESSION				
CG6967	CG6967	-	7.00	1.94
CG17950	HmgD	chromatin structure	2.13	1.28
CG7670	WRNexo	3'-5' exonuclease activity	2.93	1.64
CG15552	Sox100B	DNA bending activity	2.89	1.47
CG3726	CG3726	DNA binding	2.22	-1.23
CG18783	Kr-h1	DNA binding	1.30	-1.23
CG15319	CG15319	histone acetyltransferase activity (H3-K27 specific)	1.36	1.29
CG3307	pr-set7	histone methyltransferase activity (H4-K20 specific)	1.39	1.06
CG14906	CG14906	homology DNA methylase	1.53	2.15
CG31421	Taki1	MAP kinase kinase kinase activity	3.40	1.23
CG14029	vri	negative regulation of transcription	1.94	1.09
CG8954	Smg5	nonsense-mediated decay	1.59	1.02
CG4354	slbo	RNA pol II regulation	1.90	1.02
CG8337	E(spl)malp	sequence-specific DNA binding	2.07	-1.05
CG1070	Alh	sequence-specific DNA binding transcription factor activity	3.32	1.96
CG6246	nub	sequence-specific DNA binding transcription factor activity	2.38	1.18
CG12287	pdm2	specific RNA polymerase II transcription factor activity	3.06	1.01
CG8786	CG8786	Zinc finger TF	1.34	-1.05
CG10901	osk	regulation of mRNA stability	-1.47	-1.10
CG8354	E(spl)m6	-	-2.32	1.02
X01472	Mef2	RNA polymerase II transcription factor activity	-1.54	-1.53
CG5508	sbb	sequence-specific DNA binding transcription factor activity	-1.33	-1.14
GUT STRUCTURE				
CG9193	mus209	cell proliferation	2.49	1.50
CG8091	Nc	cell death	2.22	1.55
CG4454	borr	cell proliferation	1.68	1.12
CG5803	Fas3	cell adhesion	1.33	2.02
CG10072	sgl	-	1.31	1.04
CG9187	Psf1	3'-5' DNA helicase activity	1.33	1.12
CG9579	AnnX	actin binding	2.44	1.82
CG2534	cno	actin binding	1.83	1.15
CG8978	Sop2	actin binding	1.41	1.66
CG3178	Rrp1	AP endonuclease, family	2.31	1.20
CG5055	baz	apico/basal polarity	1.66	1.26
CG31453	pch2	ATP binding	2.48	1.53
CG17800	Dscam	axon guidance receptor activity	1.48	-1.50
CG5481	lea	axon guidance receptor activity	1.34	-1.15
CG1634	Nrg	calcium ion binding	1.57	1.57
CG5730	AnnIX	calcium-dependent phospholipid binding	2.06	1.66
CG8095	scb	cell adhesion molecule binding	1.94	1.82
CG31004	CG31004	cell-matrix adhesion	2.07	1.61
CG31048	CG31048	central nervous system development	1.30	-1.01
CG31901	Mur29B	chitin binding	2.75	1.24
CG33983	obst-H	chitin binding	2.42	4.07
CG2054	Cht2	chitinase activity	3.44	1.25
CG3986	Cht4	chitinase activity	2.83	1.92
CG5864	AP-1sigma	clathrin adaptor complex	1.31	1.06
CG13419	burs	cuticle pigmentation	1.32	1.28
CG5940	CycA	cyclin	2.11	1.58
CG11949	cora	cytoskeletal protein binding	2.34	1.48
CG4978	Mcm7	DNA helicase	2.48	1.45
CG9995	htt	establishment of mitotic spindle orientation	1.39	1.06
CG8497	Rhp	GTP-Rho binding	2.11	2.02
CG12946	Whamy	GTPase binding	2.00	1.26
CG1794	Mmp2	matrix metalloproteinase	2.26	2.24
CG31363	Jupiter	microtubule binding	1.93	2.07
CG7293	Klp68D	motor activity	1.69	1.83
CG13586	itp	neuropeptide hormone activity	2.12	1.42
CG16707	vsg	olfactory learning	1.32	-1.04
CG4700	Sema-2a	protein binding	2.10	1.23

CG12358	Paip2	protein binding, regulation of cell growth	1.90	-1.70
CG13521	robo	receptor activity	2.00	-1.13
CG3401	betaTub60D	structural constituent of cytoskeleton	4.51	2.45
CG12051	Act42A	structural constituent of cytoskeleton	2.51	2.26
CG16963	Cry	structural constituent of eye lens	4.52	2.58
CG6933	CG6933	structural constituent of peritrophic membrane	2.38	2.42
CG7017	CG7017	structural constituent of peritrophic membrane	1.59	4.58
CG7252	CG7252	structural constituent of peritrophic membrane	1.47	1.14
CG11734	HERC2	ubiquitin protein ligase	1.47	1.40
CG6403	CG6403	chitin binding	-1.71	-1.39
CG4835	CG4835	chitin binding	-1.39	-1.77
CG10531	Cht9	chitinase activity	-1.34	1.04
CG18778	Cpr65Au	structural constituent of chitin-based cuticle	-1.49	1.05
CG10112	Cpr51A	structural constituent of chitin-based cuticle	-1.46	-1.08
CG32656	Muc11A	mucin	-2.51	1.18
CG10725	CG10725	structural constituent of peritrophic membrane	-1.58	-1.11
CG5883	CG5883	structural constituent of peritrophic membrane	-1.39	-1.01
CG4784	Cpr72Ec	structural constituent of peritrophic membrane	-1.35	-1.12
CG6456	Mip	ecdysostatic hormone activity	-1.55	-1.27
CG5178	Act88F	actin binding	-1.57	-1.06
CG6852	CG6852	protein disulfide oxidoreductase activity	-1.46	-1.09
CG15533	aSMase	sphingomyelin phosphodiesterase activity	-1.49	-1.32
IMMUNE RESPONSE				
CG7629	AttD	antimicrobial peptides	8.62	-1.03
CG32279	dro2	antimicrobial peptides	5.78	7.19
CG1385	Def	antimicrobial peptides	4.03	1.11
CG10146	AttA	antimicrobial peptides	3.61	1.12
CG7496	PGRP-SD	imd	2.51	-1.37
CG16910	key	imd	2.05	1.17
CG2086	drpr	phagocytosis	2.02	1.08
CG32283	dro3	antimicrobial peptides	1.98	2.26
CG31508	TotC	Turandots	1.47	2.74
CG31509	TotA	Turandots	1.40	3.13
CG2081	Vago	response to virus	1.31	1.18
CG8577	PGRP-SC1a/b	amidase activity	1.33	-1.83
CG18372	AttB	antimicrobial peptides	2.24	1.08
CG6575	glec	carbohydrate binding	1.78	-1.07
CG9120	LysX	lysozyme activity	2.35	-1.03
CG7593	CG7593	N-acetyltransferase activity	1.40	-1.14
CG9358	Phk-3	protein serine/threonine kinase activity	1.68	1.93
CG11992	Rel	transcription factor	1.65	1.07
CG1165	LySS	lysozyme activity	-1.34	-1.43
CG5528	Toll-9	transmembrane receptor activity	-1.53	-2.01
METABOLISM/DIGESTION				
CG10352	CG10352	4-nitrophenylphosphatase activity	1.30	1.63
CG4860	CG4860	acyl-CoA dehydrogenase activity	1.77	-1.25
CG5518	sda	aminopeptidase activity	2.25	1.92
CG5789	CG5789	ATPase activity, coupled to transmembrane movement of substances	1.56	1.07
CG10126	CG10126	calcium ion binding	1.55	1.64
CG15695	CG15695	catalytic activity	1.66	1.02
CG31133	CG31133	cellular respiration	1.45	1.24
CG18188	Damm	cysteine-type endopeptidase activity	1.98	1.36
CG8671	CG8671	dsRNA transport	2.02	1.08
CG15829	CG15829	fatty-acyl-CoA binding	2.20	1.95
CG6869	FuctA	fucosyl transferase	2.48	-1.11
CG9360	CG9360	Glucose/ribitol dehydrogenase; NAD(P)-binding domain	1.64	1.36
CG31148	CG31148	glucosylceramidase activity	1.32	1.81
CG15117	CG15117	glucuronidase activity	1.53	-1.12
CG10178	CG10178	glucuronosyltransferase activity	1.87	1.06
CG1271	CG1271	glycerol kinase activity	1.48	-1.01
CG8066	CG8066	homology cysteine-type endopeptidase inhibitor activity	1.91	1.45
CG10383	CG10383	hydrolase activity, acting on ester bonds	2.66	-1.30
CG32684	alpha-Man-I	mannosyl-oligosaccharide 1,2-alpha-mannosidase activity	2.06	1.25
CG14517	beta4GalNAcTB	N-acetylglucosamine metabolic process; glycolipid biosynthetic process	1.35	1.16
CG6725	Sulf1	N-acetylglucosamine-6-sulfatase activity	1.59	-1.48
CG31216	Naam	nicotinamidase activity	1.82	2.93

CG12224	CG12224	oxidoreductase activity	1.85	1.06
CG3074	dmw	peptidase	3.51	2.22
CG4445	pgant3	polypeptide N-acetylgalactosaminyltransferase activity	3.05	2.45
CG3254	pgant2	polypeptide N-acetylgalactosaminyltransferase activity	1.66	-1.44
CG10000	CG10000	polypeptide N-acetylgalactosaminyltransferase activity	1.35	2.03
CG1698	CG1698	potassium:amino acid symporter activity	1.49	1.20
CG34451	CG34451	protein glycosylation	1.57	-1.29
CG4799	Pen	protein transmembrane transporter activity	2.55	1.86
CG31072	Lerp	receptor activity	1.42	1.05
CG8975	Rnrs	ribonucleoside-diphosphate reductase activity	2.31	1.46
CG5371	RnrL	ribonucleoside-diphosphate reductase activity	2.06	1.44
CG42269	CG42269	secondary active organic cation transmembrane transporter activity	1.36	-1.24
CG30090	CG30090	serine-type endopeptidase activity	3.28	-1.53
CG4998	CG4998	serine-type endopeptidase activity	2.25	-1.08
CG9564	Try29F	serine-type endopeptidase activity	2.09	-1.07
CG7118	Jon66Ci	serine-type endopeptidase activity	1.56	-1.17
CG1220	Kaz1-ORFB	serine-type endopeptidase inhibitor activity	2.49	1.23
CG31704	CG31704	serine-type endopeptidase inhibitor activity	1.94	1.03
CG7291	Npc2a	sterol binding	1.69	1.47
CG31410	Npc2e	sterol transport	2.65	1.58
CG2985	Yp1	structural molecule activity	1.43	1.22
CG3181	Ts	thymidylate synthase activity	2.53	1.45
CG14219	CG14219	transferase activity, transferring acyl groups other than amino-acyl groups	1.46	-1.29
CG16898	CG16898	transferase activity, transferring phosphorus-containing groups	2.22	1.61
CG10559	CG10559	transferase activity, transferring phosphorus-containing groups	2.16	2.50
CG13893	CG13893	transporter activity	1.66	-1.02
CG17191	CG17191	triglyceride lipase activity	1.75	1.05
CG6330	CG6330	uridine phosphorylase activity	2.18	1.89
CG9465	CG9465	alpha-mannosidase activity	-2.11	-2.27
CG17725	Pepck	phosphoenolpyruvate carboxykinase (GTP) activity	-1.54	-1.57
CG3599	Btd	hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides	-1.31	-1.80
CG18607	CG18607	Acyl-CoA N-acyltransferase	-1.57	-1.66
CG7923	Fad2	fatty acid desaturase	-1.94	1.44
CG31091	CG31091	triglyceride lipase activity	-2.39	-1.39
CG6296	CG6296	triglyceride lipase activity	-2.01	-1.78
CG31089	CG31089	triglyceride lipase activity	-1.68	-1.11
CG5295	bmm	triglyceride lipase activity	-1.64	-1.63
CG17192	CG17192	triglyceride lipase activity	-1.48	-1.41
CG2772	CG2772	triglyceride lipase activity	-1.37	-1.50
CG11162	CG11162	C-4 methylsterol oxidase activity	-1.46	-1.34
CG32072	Elo68alpha	fatty acid elongase activity	-1.35	-1.07
CG9394	CG9394	glycerophosphodiester phosphodiesterase activity	-1.95	-1.34
CG4501	bgm	long-chain fatty acid-CoA ligase activity	-2.04	-1.44
CG12512	CG12512	long-chain fatty acid-CoA ligase activity	-1.37	-1.62
CG4861	LpR1	low-density lipoprotein receptor activity	-1.49	-1.58
CG15534	CG15534	sphingomyelin phosphodiesterase activity	-1.63	-1.28
CG13478	shd	electron carrier activity	-1.59	-1.76
CG9709	Acox57D-d	acyl-CoA oxidase activity	-1.46	-1.23
CG31075	CG31075	aldehyde dehydrogenase	-1.36	-1.15
CG30354	CG30354	ubiquinol-cytochrome-c reductase activity	-1.96	-1.48
CG3106	CG3106	transferase activity, transferring acyl groups other than amino-acyl groups	-2.01	-1.40
CG10182	CG10182	transferase activity, transferring acyl groups other than amino-acyl groups	-1.89	1.05
CG42329	CG42329	transferase activity, transferring acyl groups other than amino-acyl groups	-1.88	1.02
CG42329	CG42329	transferase activity, transferring acyl groups other than amino-acyl groups	-1.68	1.07
CG1946	CG1946	transferase activity, transferring acyl groups other than amino-acyl groups	-1.68	-1.95
CG14205	CG14205	transferase activity, transferring acyl groups other than amino-acyl groups	-1.61	-1.83
CG17681	CG17681	N-acetyltransferase activity	-1.80	1.12
CG6649	Ugt35b	glucuronosyltransferase activity	-1.45	1.11
CG4302	CG4302	glucuronosyltransferase activity	-1.44	-1.25
CG13271	Ugt36Bb	glucuronosyltransferase activity	-1.38	-1.80
CG15661	CG15661	glucuronosyltransferase activity	-1.32	-1.09
CG3747	Eaat1	glutamate:sodium symporter activity	-1.89	-1.39
CG40305	FuctC	fucosyltransferase activity	-1.67	-1.28
CG7402	CG7402	N-acetylgalactosamine-4-sulfatase activity	-1.40	-1.24
CG4123	Mipp1	inositol or phosphatidylinositol phosphatase activity	-1.63	-1.48
CG4312	MtnB	copper ion binding	-1.36	-1.51

CG13813	CG13813	transferase activity, transferring phosphorus-containing groups	-3.28	-1.12
CG10513	CG10513	transferase activity, transferring phosphorus-containing groups	-1.93	1.22
CG9259	CG9259	transferase activity, transferring phosphorus-containing groups	-1.71	1.44
CG13360	CG13360	transferase activity, transferring phosphorus-containing groups	-1.65	-1.57
CG1082	alpha-Est4	carboxylesterase activity	-1.85	-1.61
CG15093	CG15093	3-hydroxyisobutyrate dehydrogenase activity	-1.41	-1.37
CG6726	CG6726	aminoacylase activity	-1.42	-1.03
CG9512	CG9512	choline dehydrogenase activity	-1.98	1.01
CG11236	CG11236	D-aspartate oxidase activity	-1.52	-1.26
CG17636	CG17636	gamma-glutamyltransferase activity	-1.41	-1.44
CG3705	aay	phosphoserine phosphatase activity	-2.04	-1.25
CG8579	Jon44E	serine-type endopeptidase activity	-1.55	-1.54
CG6580	Jon65Aii	serine-type endopeptidase activity	-1.38	-1.84
CG1131	alpha-Est10	alpha esterase	-2.77	1.02
CG7025	CG7025	metallocarboxypeptidase activity	-2.31	-1.82
CG15253	CG15253	metalloendopeptidase activity	-2.49	-2.12
CG8358	CG8358	metalloendopeptidase activity	-1.67	-1.58
CG30043	CG30043	peptidase activity	-2.17	-1.69
CG13160	CG13160	peptidase activity	-2.09	-1.12
CG10062	CG10062	peptidase activity	-1.71	-1.24
CG30049	CG30049	peptidase activity	-1.61	-1.53
CG10051	CG10051	peptidase activity	-1.53	-1.52
CG30047	CG30047	peptidase activity	-1.45	-1.34
CG9416	CG9416	peptidase M28	-2.27	-1.64
CG8299	CG8299	serine-type endopeptidase activity	-1.47	-1.33
CG31266	CG31266	serine-type endopeptidase activity	-1.45	-1.47
CG4053	CG4053	serine-type endopeptidase activity	-1.44	-1.37
CG15418	CG15418	endopeptidase inhibitor activity	-1.48	-1.19
CG12387	zetaTry	serine-type endopeptidase activity	-1.55	-1.40
CG5992	Adgf-A	adenosine deaminase activity	-1.53	-1.06
CG33346	CG33346	hydrolase activity	-1.31	-1.14
CG7642	ry	xanthine dehydrogenase activity	-1.32	-1.05
CG4991	CG4991	amino acid transmembrane transporter activity	-3.22	-1.62
CG6070	gb	amino acid transmembrane transporter activity	-1.73	-1.51
CG7888	CG7888	amino acid transmembrane transporter activity	-1.34	-1.35
CG11128	slif	cationic amino acid transmembrane transporter activity	-2.43	-1.30
CG17119	CG17119	L-cystine transmembrane transporter activity	-1.70	-1.68
CG3252	NAAT1	potassium:amino acid symporter activity	-1.35	-1.17
CG17167	CG17167	calcium, potassium:sodium antiporter activity	-1.51	-1.36
CG4797	CG4797	glucose transmembrane transporter activity	-2.16	1.08
CG33281	CG33281	monosaccharide transmembrane transporter activity	-2.12	1.06
CG11340	CG11340	extracellular-glycine-gated chloride channel activity	-1.32	-1.55
CG6747	Ir	inward rectifier potassium channel activity	-2.41	-1.10
CG6898	Zip3	metal ion transmembrane transporter activity	-2.21	-1.05
CG9430	CG9430	metal ion transmembrane transporter activity	-1.86	-1.36
CG9428	ZIP1	metal ion transmembrane transporter activity	-1.43	-1.77
CG8663	nrv3	sodium:potassium-exchanging ATPase activity	-1.38	-1.28
CG5130	CG5130	zinc ion transmembrane transporter activity	-1.85	1.03
CG4830	CG4830	long-chain fatty acid transporter activity	-3.43	-2.87
CG31783	ninaD	scavenger receptor activity	-3.06	-2.32
CG16700	CG16700	gamma-aminobutyric acid:hydrogen symporter activity	-2.65	-1.17
CG9825	CG9825	high affinity inorganic phosphate:sodium symporter activity	-2.91	-2.61
CG9826	CG9826	high affinity inorganic phosphate:sodium symporter activity	-2.87	-1.23
CG8791	CG8791	high affinity inorganic phosphate:sodium symporter activity	-2.13	-1.46
CG5304	I(2)01810	high affinity inorganic phosphate:sodium symporter activity	-1.92	-1.37
CG7881	CG7881	high affinity inorganic phosphate:sodium symporter activity	-1.40	-1.63
CG6293	CG6293	L-ascorbate:sodium symporter activity	-1.35	-1.21
CG8083	CG8083	nucleoside:sodium symporter activity	-2.05	-1.06
CG7720	CG7720	sodium:iodide symporter activity	-1.33	-1.22
CG30272	CG30272	-	-3.48	-2.00
CG12490	CG12490	-	-2.79	-2.49
CG30265	CG30265	-	-2.03	-1.17
CG10505	CG10505	ABC transporter	-1.41	-1.53
CG14606	CG14606	hexose transporter	-1.48	-1.92
CG15096	CG15096	high affinity inorganic phosphate:sodium symporter activity	-1.91	-1.33
CG7912	CG7912	high affinity sulfate transmembrane transporter activity	-2.54	-1.25

CG5002	CG5002	high affinity sulfate transmembrane transporter activity	-1.33	-1.10
CG6125	CG6125	high affinity sulfate transmembrane transporter activity	-1.31	1.62
CG3382	Oatp58Db	organic anion transmembrane transporter activity	-1.60	1.07
CG16727	CG16727	organic cation transmembrane transporter activity	-1.76	1.23
CG8468	CG8468	secondary active monocarboxylate transmembrane transporter activity	-2.41	-1.68
CG18327	CG18327	transmembrane transporter activity	-1.93	-1.64
CG8026	CG8026	transmembrane transporter activity	-1.39	-1.17
CG32669	CG32669	transporter activity	-2.00	-1.29
CG31636	CG31636	transporter activity	-1.92	-1.05
CG31272	CG31272	transporter activity	-1.91	1.41
CG8026	CG8026	folic acid transporter activity	-1.42	-1.13
CG14694	CG14694	reduced folate carrier activity	-1.73	-1.19
CG32751	CG32751	pantetheine hydrolase activity	-2.51	-2.27
CG32750	CG32750	pantetheine hydrolase activity	-2.27	-1.37
SIGNALING				
CG7103	Pvf1	PVF pathway	6.50	2.06
CG13388	Akap200	protein kinase A binding	2.72	1.55
CG18402	InR	InR pathway	2.66	1.71
CG9670	fal	GTPase activity	2.55	1.20
CG5212	Pli	kinase regulator	2.51	-1.28
CG2699	Pi3K21B	phosphatidylinositol 3-kinase regulator activity	2.45	1.58
CG15154	Socs36E	regulation of JAK-STAT cascade	2.34	2.85
CG3619	DI	Notch binding	2.30	1.34
CG15509	kay	JNK pathway	2.28	1.29
CG31811	cenG1A	ARF GTPase activator activity	2.24	-1.24
CG11988	neur	Notch pathway	2.07	1.21
CG10580	fng	Notch pathway	1.97	1.34
CG14080	Mkp3	other pathways	1.94	1.27
CG8346	HLHm3	Notch pathway	1.89	-1.03
CG31794	Pax	rho GTPase	1.83	1.64
CG1004	rho	EGFR pathway	1.74	1.97
CG6477	RhoGAP54D	Ras GTPase	1.68	-1.19
CG5963	upd3	JAK-STAT pathway	1.66	3.16
CG6860	CG6860	EGFR pathway	1.60	-1.06
CG4637	hh	hh pathway	1.57	-1.30
CG8846	Thor	InR pathway	1.56	-1.34
CG17998	Gprk2	GPCR signaling	1.46	-1.06
CG3973	pigs	Notch pathway	1.44	-1.18
CG17077	pnt	EGFR pathway	1.43	-1.57
CG33338	p38c	MAP kinase activity	1.36	2.00
CG4608	bnl	FGF pathway	1.31	1.17
CG34374	Rapgap1	EGFR pathway	-1.48	-1.01
CG16987	daw	TGF pathway	-3.08	-2.28
STRESS RESPONSE				
CG8733	Cyp305a1	Cytochrome P450	2.15	1.11
CG12891	whd	detoxification	1.59	-1.89
CG9434	Fst	Heat shock	1.56	2.90
CG6214	MRP	ATPase activity, coupled to transmembrane movement of substances	1.44	1.25
CG10842	Cyp4p1	Cytochrome P450	2.52	1.27
CG14031	Cyp4ac3	Cytochrome P450	1.44	1.25
CG10091	Gstd9	glutathione transferase activity	1.74	1.93
CG4181	Gstd2	glutathione transferase activity	1.68	4.47
CG12242	Gstd5	glutathione transferase activity	1.59	3.84
CG4421	Gstd8	glutathione transferase activity	1.57	1.62
CG5224	CG5224	homology glutathione transferase activity	1.81	1.32
CG4463	Hsp23	HSP	3.39	12.66
CG18743	Hsp70Ab	HSP	3.08	3.50
CG6489	Hsp70Bc	HSP	2.72	2.33
CG6489	Hsp70Bc	HSP	2.25	1.53
CG32041	Hsp22 /// Hsp67Bb	HSP	1.88	2.63
CG4183	Hsp26	HSP	1.70	2.58
CG4466	Hsp27	HSP	1.56	1.61
CG33111	CG33111	oxidoreductase activity	2.01	1.61
CG31543	Hph	peptidyl-proline 4-dioxygenase activity	2.32	-1.29
CG11765	Prx2540-2	peroxiredoxin	1.57	1.07
CG42568	DnaJ-60	unfolded protein binding	1.49	-1.06

CG3972	Cyp4g1	Cytochrome P450	-4.10	2.10
CG13977	Cyp6a18	Cytochrome P450	-1.48	1.33
CG3656	Cyp4d1	electron carrier activity	-1.73	-1.33
CG9438	Cyp6a2	electron carrier activity	-1.54	-1.44
CG30489	Cyp12d1	electron carrier activity	-1.38	-1.73
CG3540	Cyp4d14	electron carrier activity	-1.38	-1.18
CG4105	Cyp4e3	electron carrier activity	-1.36	-1.55
CG2062	Cyp4e1	electron carrier activity	-1.33	-1.10
CG8523	Mdr50	ATPase activity, coupled	-2.33	-1.47
CG15095	I(2)08717	hypoxia	-1.57	1.30
CG4371	Gstd7	glutathione transferase activity	-1.47	-1.20
CG17522	GstE10	glutathione transferase activity	-1.39	1.36
CG9027	CG9027	superoxide dismutase activity	-1.50	-1.08

UNKNOWN GENES

CG42807	CG42807	-	15.55	1.49
CG32368	CG32368	-	13.35	1.36
CG12970	CG12970	-	7.71	2.54
CG8353	CG8353	-	6.72	2.30
CG4250	CG4250	-	5.75	2.41
CG15199	CG15199	-	5.13	1.94
CG6640	CG6640	-	4.51	2.91
CG17264	CG17264	-	4.46	-1.17
CG16995	CG16995	-	4.16	2.19
CG14499	CG14499	-	4.11	1.47
CG14696	CG14696	-	3.99	1.30
CG5118	CG5118	-	3.43	-1.14
CG8678	CG8678	-	3.23	1.38
CG11658	CG11658	-	3.12	-1.05
CG31344	CG31344	-	3.09	2.27
CG33468	CG33468	-	2.98	2.19
CG5953	CG5953	-	2.95	1.47
CG10943	CG10943	-	2.89	1.12
CG32107	CG32107	-	2.74	-1.07
CG13482	CG13482	-	2.69	1.36
CG6792	CG6792	-	2.64	1.04
CG5910	CG5910	-	2.57	-1.00
CG2017	CG2017	-	2.57	1.51
CG5630	CG5630	-	2.55	5.69
CG11671	CG11671	-	2.52	1.26
CG15210	CG15210	-	2.48	2.57
CG34005	CG34005	-	2.45	-1.02
CG4269	CG4269	-	2.43	1.94
CG13117	CG13117	-	2.42	2.90
CG33469	CG33469	-	2.42	2.16
CG13598	sba	-	2.36	1.00
CG34236	CG34236	-	2.26	1.43
CG13488	CG13488	-	2.25	1.11
CG11141	CG11141	-	2.24	1.11
CG16959	CG16959	-	2.23	1.23
CG18635	CG18635	-	2.23	1.39
CG11878	CG11878	-	2.22	1.23
CG13190	cuff	-	2.20	1.31
CG2789	CG2789	-	2.17	1.52
CG10746	fok	-	2.16	-1.06
CG15893	CG15893	-	2.15	1.80
CG8398	CG8398	-	2.14	1.15
CG42388	CG42388	-	2.14	1.47
CG1347	CG1347	-	2.11	-1.21
CG2679	gol	-	2.09	-1.09
CG14302	CG14302	-	2.08	1.56
CG30154	CG30154	-	2.05	1.81
CG13941	Arc2	-	2.04	2.21
CG32556	CG32556	-	2.04	1.13
CG14872	CG14872	binding	2.03	2.20
CG11454	CG11454	-	2.02	1.50
CG3703	CG3703	-	2.02	1.27

CG12214	CG12214	-	2.00	-1.51
CG8965	CG8965	-	1.97	1.04
CG30148	CG30148	-	1.95	-1.07
CG30082	CG30082	-	1.93	1.18
CG5770	CG5770	-	1.90	1.25
CG34040	CG34040	-	1.85	2.33
CG15784	CG15784	-	1.79	2.21
CG10106	Tsp42Ee	-	1.77	1.12
CG15083	CG15083	-	1.72	1.45
CG2909	CG2909	-	1.67	2.00
CG34040	CG34040	-	1.67	2.06
CG6490	CG6490	-	1.66	1.37
CG15865	CG15865	-	1.63	1.18
CG42565	CG42565	-	1.63	1.85
CG13506	CG13506	-	1.62	1.41
CG4716	CG4716	-	1.60	1.40
CG7567	CG7567	-	1.60	1.31
CG18067	CG18067	-	1.57	1.72
CG12934	CG12934	-	1.53	1.54
CG4716	CG4716	-	1.52	1.30
CG11885	CG11885	-	1.52	2.13
CG10283	CG10283	-	1.51	-1.08
CG14872	CG14872	binding	1.50	1.42
CG30015	CG30015	-	1.49	-1.10
CG5123	W	-	1.49	-1.16
CG1667	CG1667	-	1.48	-1.11
CG15449	CG15449	-	1.46	1.30
CG8483	CG8483	-	1.46	1.42
CG12868	CG12868	-	1.46	1.42
CG2211	CG2211	-	1.45	-1.05
CG14872	CG14872	binding	1.45	1.21
CG17724	CG17724	-	1.43	-1.04
CG33146	Mctp	-	1.43	1.08
CG5181	CG5181	-	1.42	1.16
CG13511	CG13511	-	1.42	1.57
CG14695	CG14695	-	1.41	2.55
CG40271	CG40271	-	1.41	-1.12
CG4393	CG4393	-	1.39	1.50
CG42388	CG42388	-	1.38	1.36
CG18765	CG18765	-	1.37	-1.33
CG10102	CG10102	binding	1.37	1.22
CG18748	CG18748	-	1.36	1.14
CG5073	CG5073	-	1.36	1.46
CG1827	CG1827	-	1.36	-1.04
CG15293	CG15293	-	1.35	1.19
CG13324	CG13324	-	1.35	1.81
CG8012	CG8012	-	1.35	1.09
CG10570	CG10570	-	1.35	1.06
CG11889	CG11889	-	1.33	-1.06
CG8317	CG8317	-	1.33	1.18
CG6325	CG6325	-	1.32	-1.34
CG17108	CG17108	-	1.31	1.02
CG5773	CG5773	-	1.30	1.45
CG40198	CG40198	-	-1.30	1.01
CG8768	CG8768	-	-1.31	1.05
CG7088	bnb	-	-1.31	-1.14
CG6749	CG6749	-	-1.31	1.13
CG5792	CG5792	-	-1.32	-1.10
CG31975	CG31975	-	-1.35	-1.07
CG13936	CG13936	-	-1.36	-1.18
CG16820	CG16820	-	-1.38	-1.18
CG15170	CG15170	-	-1.40	-1.21
CG15406	CG15406	-	-1.43	1.21
CG3290	CG3290	-	-1.45	1.60
CG9498	CG9498	-	-1.46	-1.03
CG14688	CG14688	-	-1.47	-1.11

CG15213	CG15213	-	-1.48	-1.20
CG11576	CG11576	-	-1.49	-1.47
CG9396	CG9396	-	-1.50	-1.63
CG15879	CG15879	-	-1.52	-1.20
CG16762	CG16762	-	-1.53	1.39
CG10553	CG10553	-	-1.56	-1.35
CG10550	CG10550	-	-1.57	-1.37
CG15213	CG15213	-	-1.58	-1.31
CG3850	sug	-	-1.64	-1.33
CG13309	CG13309	-	-1.67	1.70
CG7737	CG7737	-	-1.69	-1.02
CG4624	VhaAC39-2	ATPase activity, coupled	-1.69	-1.37
CG14629	CG14629	-	-1.72	-1.55
CG6839	CG6839	hydrolase activity	-1.73	-1.59
CG33012	CG33012	-	-1.74	-1.26
CG16904	CG16904	-	-1.83	1.30
CG31710	CG31710	-	-1.84	1.03
CG31454	CG31454	-	-1.94	-1.48
CG7582	CG7582	-	-1.96	-1.24
CG30008	CG30008	-	-1.96	1.29
CG32407	CG32407	-	-2.04	-1.38
CG7966	CG7966	-	-2.20	-1.47
CG16880	nimC3	-	-2.21	-1.63
CG14963	CG14963	-	-2.26	1.34
CG3348	CG3348	-	-2.49	1.43
CG6034	CG6034	-	-2.60	-1.09
CG31248	CG31248	-	-2.65	-1.12
CG31259	CG31259	-	-2.83	-1.56
CG33510	CG33510	-	-2.93	1.25
CG32754	vanin-like	-	-3.06	-1.45

